

DO NOT ENTER: /R.G./

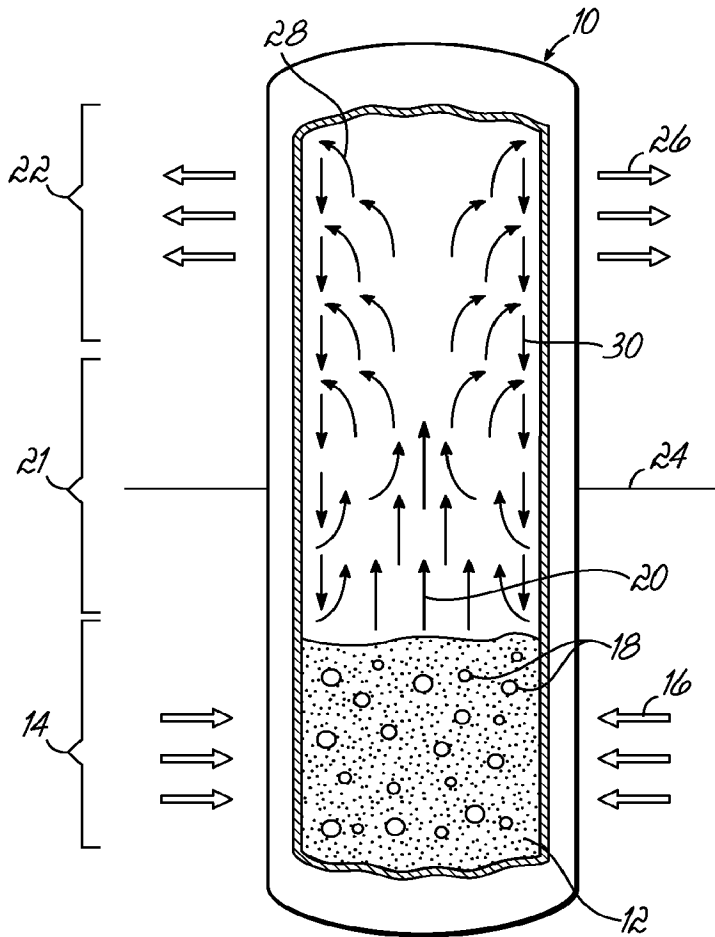


FIG. 1

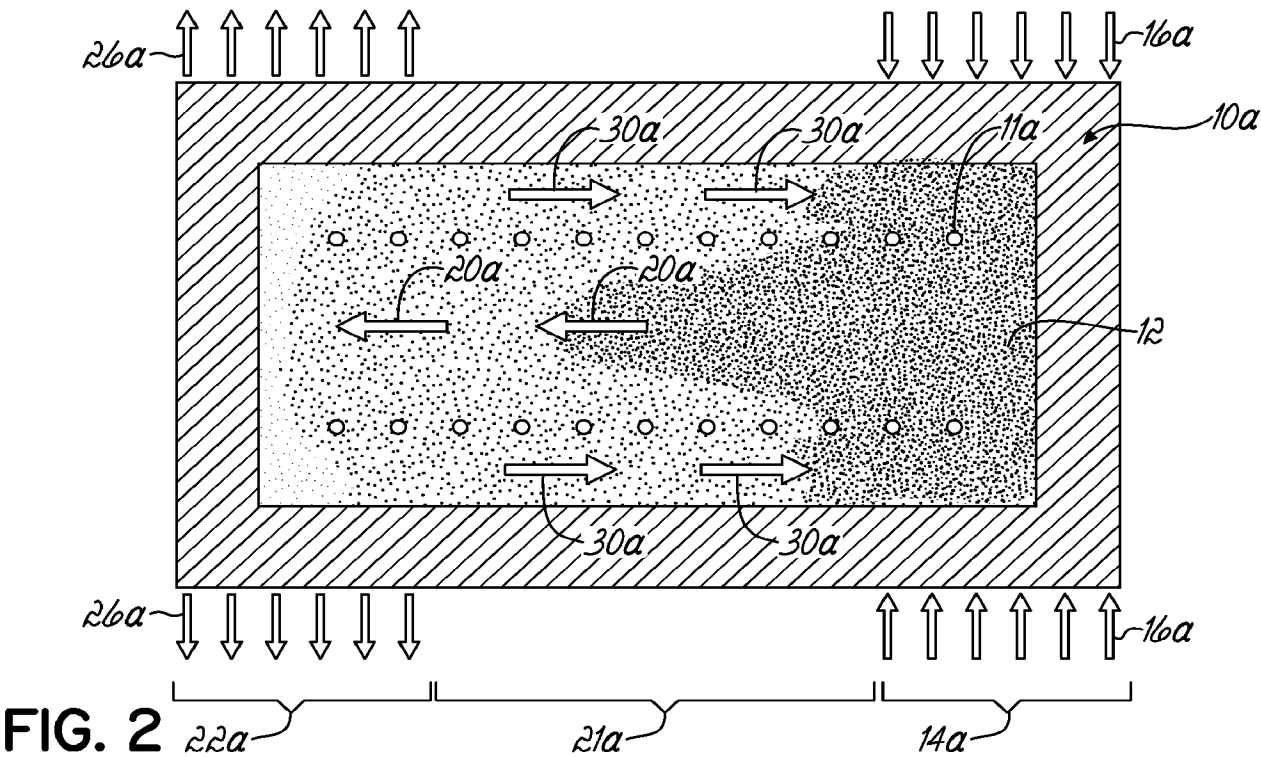


FIG. 2

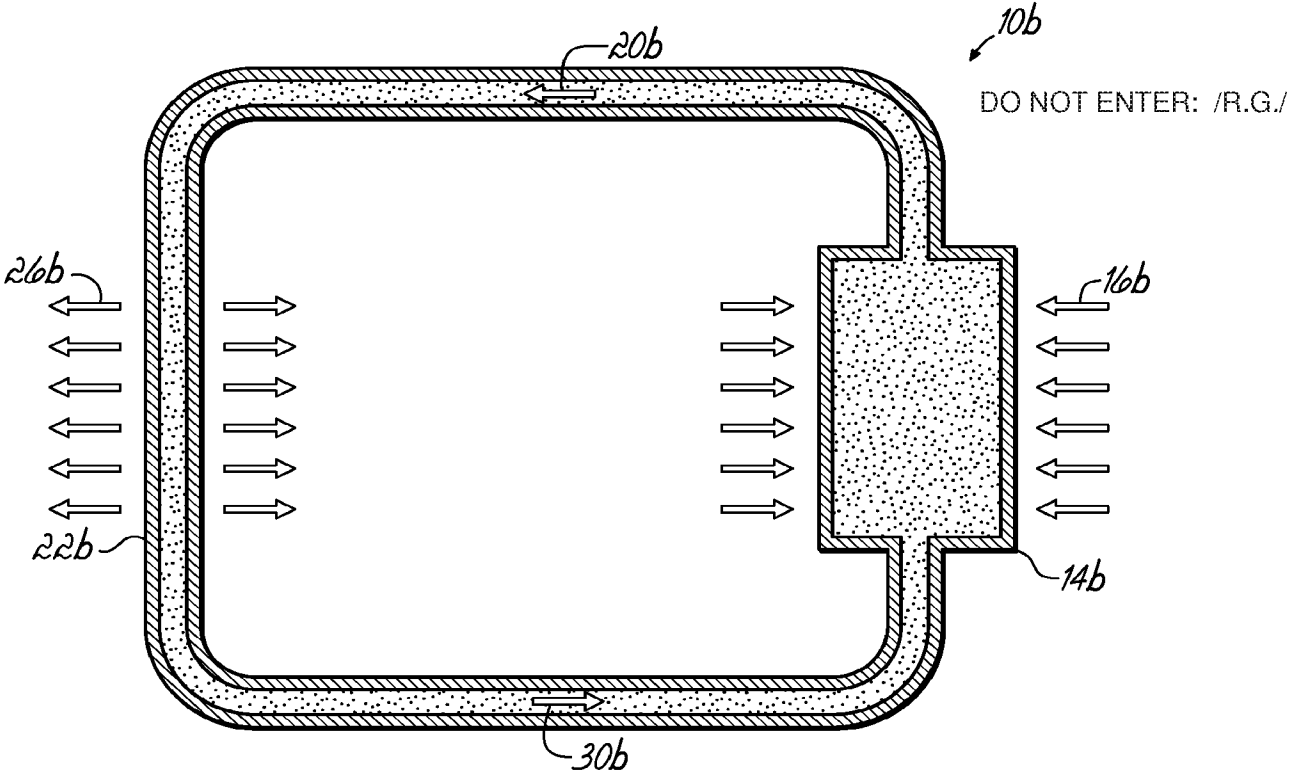


FIG. 3

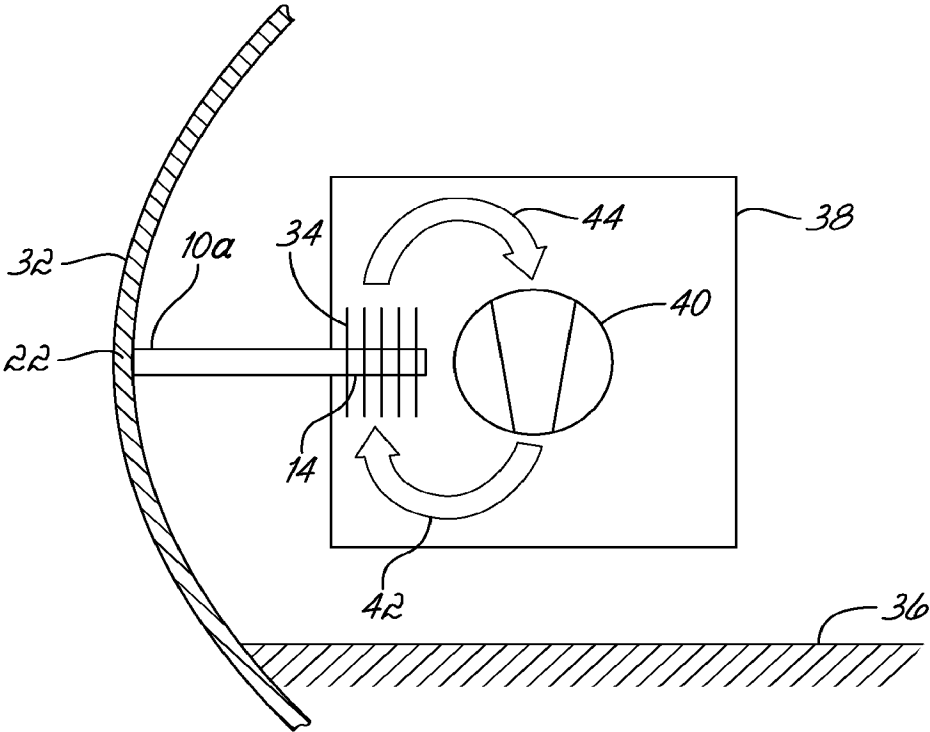


FIG. 4



This schematic diagram illustrates a vacuum furnace system with a multi-chamber design. The system includes a main furnace chamber (238) and a separate preheating chamber (240). The preheating chamber (240) is connected to the main chamber (238) via a transfer chamber (244) and a transfer duct (270). The transfer duct (270) contains a valve (274) and is connected to the main chamber (238) through a duct (272). The main chamber (238) is equipped with a heating element (282) and a temperature sensor (280). The preheating chamber (240) is also equipped with a heating element (288) and a temperature sensor (284). The system is connected to a vacuum source (232) through a duct (264) and a valve (260). The main chamber (238) is also connected to the vacuum source (232) through a duct (262) and a valve (266). The system is shown in a cross-sectional view, with the furnace chamber (238) and preheating chamber (240) being the primary components. The transfer chamber (244) and transfer duct (270) are also shown, along with the various valves (260, 266, 274, 276, 286) and heating elements (282, 288) and temperature sensors (280, 284) used in the system.

FIG. 6

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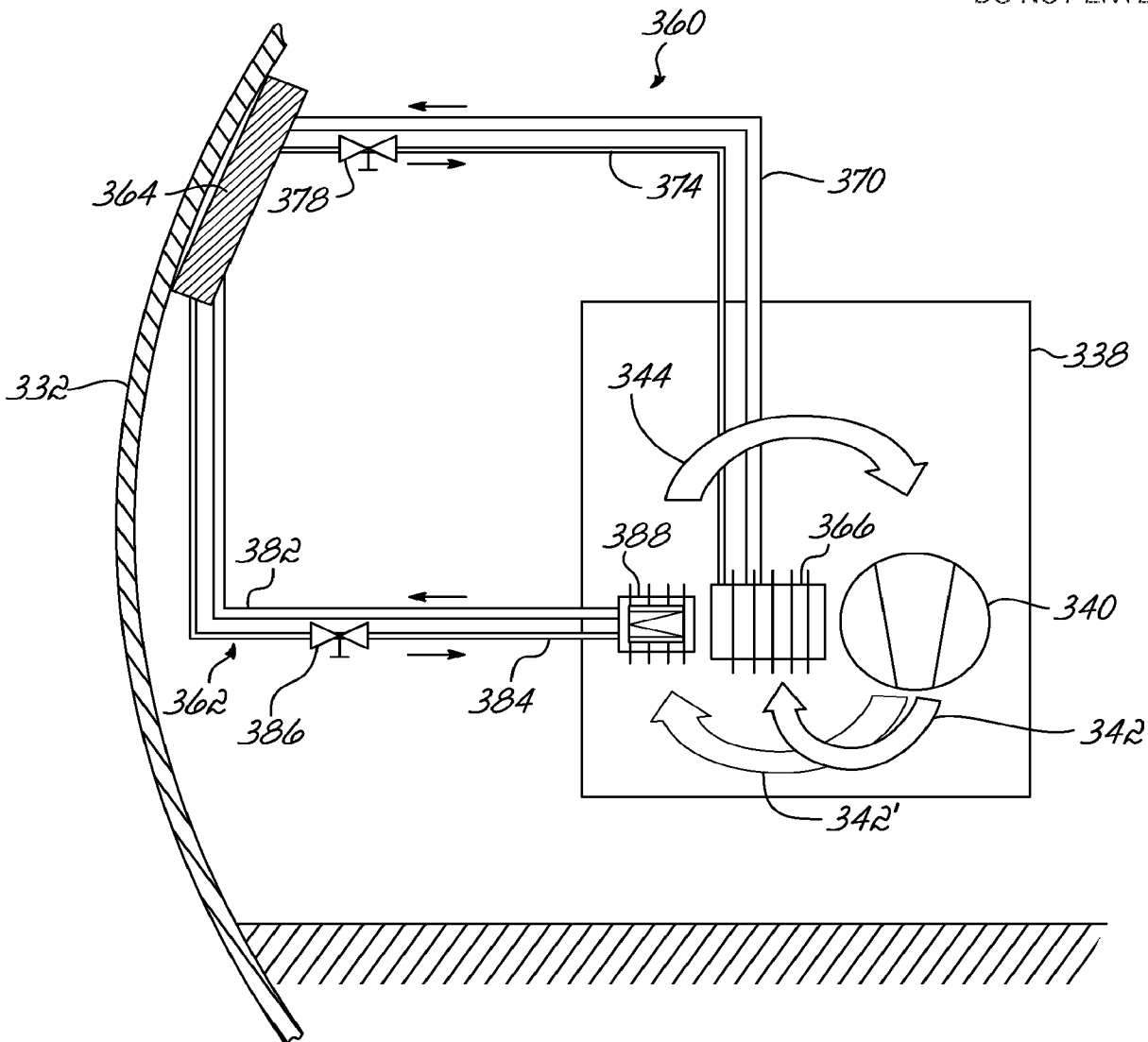


FIG. 7